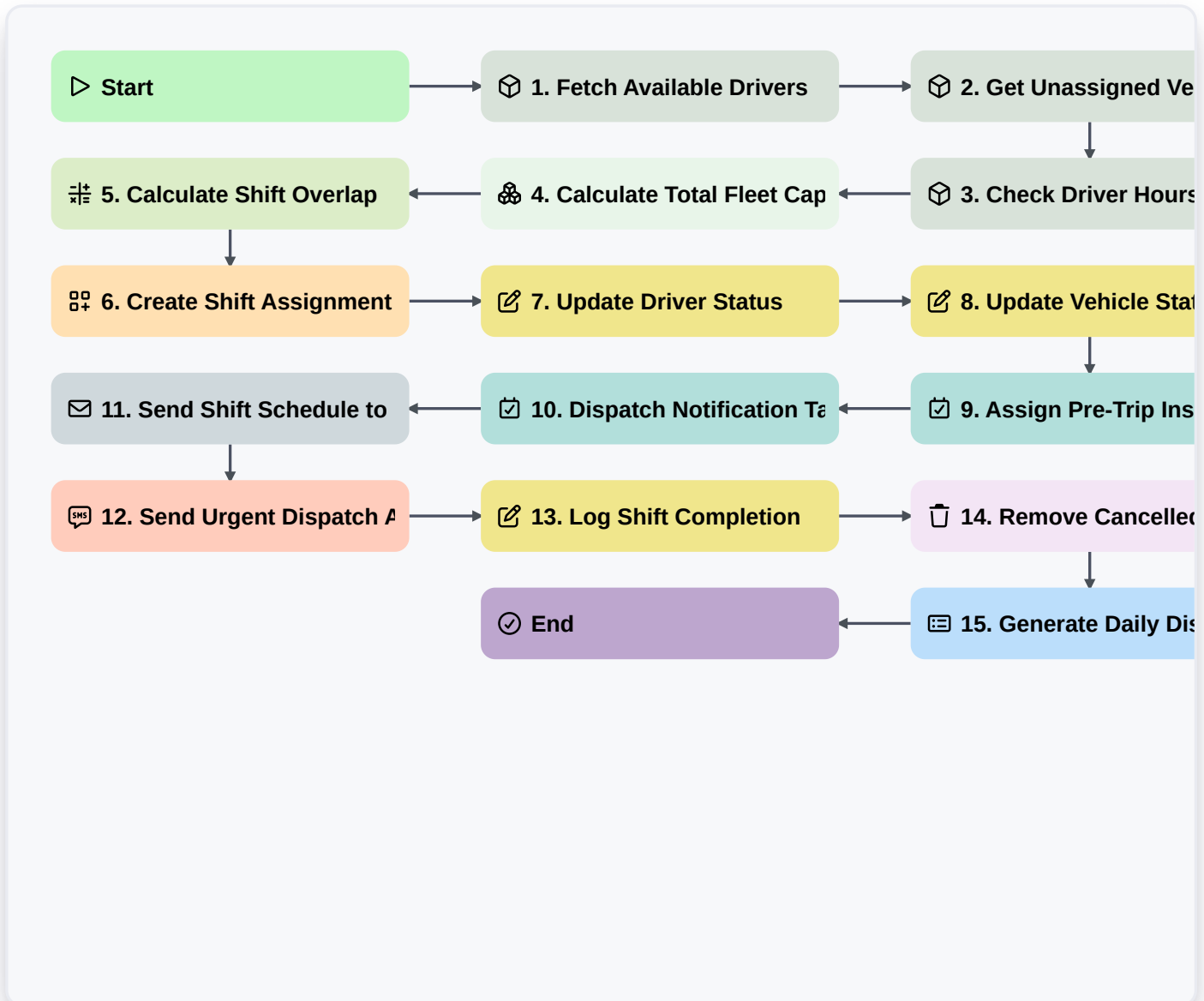


Transit Driver Shift Scheduling And Dispatch Workflow



▷ Start

Start of the Workflow/Process.

📦 1. Fetch Available Drivers

Retrieve all driver entries where status is 'Available' and shift start time is within the next 24 hours.

📦 2. Get Unassigned Vehicles

Retrieve all vehicle entries that are currently marked as 'Ready' and not assigned to an active shift.

📦 3. Check Driver Hours

Get the total driving hours recorded for the selected drivers in the last 7 days to ensure compliance.

🔗 4. Calculate Total Fleet Capacity

Sum the total weight/volume capacity of all available vehicles to ensure it meets the daily demand.

⚙️ 5. Calculate Shift Overlap

Calculate the time difference between the end of the previous shift and the start of the new shift to identify gaps.



6. Create Shift Assignment

Create a new entry in the 'Shifts' data model linking a specific Driver, Vehicle, and Route.

7. Update Driver Status

Change the status of the selected Driver entry from 'Available' to 'On Duty'.

8. Update Vehicle Status

Change the status of the assigned Vehicle entry to 'In Use'.

9. Assign Pre-Trip Inspection

Create a task for the assigned Driver to complete the vehicle safety checklist before departure.

10. Dispatch Notification Task

Create a task for the Dispatcher to confirm all route waypoints have been loaded into the driver's mobile app.

11. Send Shift Schedule to Driver

Send an email to the driver's registered email address containing shift details, route, and vehicle info.

12. Send Urgent Dispatch Alert

Send an SMS to the driver's phone number notifying them of an immediate departure or route change.

13. Log Shift Completion

Update the Shift entry with the actual end time and total kilometers driven.

14. Remove Cancelled Shift

Delete the shift entry if the driver or vehicle becomes unavailable due to an emergency.

15. Generate Daily Dispatch Summary

Create a report aggregating all completed, ongoing, and cancelled shifts for the day's management review.

End

End of the Workflow/Process.